



## Y-Pattern Strainer Valves Range

## Conex Bänninger Y-Pattern Strainer Valves

During installation and subsequent operation, debris and scale flowing through the system can cause considerable damage to pipeline systems. The use of Conex Bänninger Y-Pattern Strainer Valves will assist in reducing any problems caused by foreign bodies in the pipe. The design of the strainer body has been created to minimise the pressure drop across the valve by using a curved profile which assists in reducing turbulence. Conex Bänninger Y-Pattern Strainer Valves are sized to allow the valve to collect a reasonable amount of material before pressure reductions require the strainer to be cleaned.

### Applications and uses

Y-Pattern Strainer Valves are typically used in applications where the amount of solids to be removed is small, and where frequent clean-out is not required. Conex Bänninger Y-Pattern Strainer Valves are approved for drinking water, and are also suitable for low temperature hot water systems. In addition, bronze valves are suitable for chilled systems.

### Valve materials

Valves made from yellow brass are suitable for general purpose applications. They are not recommended for chilled water systems because of a risk of stress corrosion cracking or waters which may result in dezincification.

Valves made from bronze are suitable for a broad range of applications as they are classed as immune to dezincification, stress corrosion cracking and are highly corrosion resistant. Stress corrosion cracking occurs occasionally in brass valves where high levels of stress in the component are combined with a corrosive environment causing cracks to form and grow. Common corrosive environments for brass are items that contain ammonia, or ammoniacal compounds. These can be found in cleaning fluids, refrigeration gases, sewage waste products, building materials and insulating materials.

For further information refer to Stress Corrosion Cracking at [www.conexbanninger.com/standards](http://www.conexbanninger.com/standards)

### Quality assurance

Conex Universal Ltd is an ISO 9001 Quality Assured company and is registered with the BSI.

### 5-year warranty

When professionally fitted and in accordance with the installation instructions, Conex Banninger Valves are guaranteed against manufacturing defects for five years from first purchase date. Any alleged defects must be reported to Conex Universal Ltd within one month of the first occurrence, clearly setting out the nature of the claim. The warranty is limited to the repair and replacement of defective fittings at the discretion of Conex Universal Ltd and the company reserves the right to inspect and test the alleged defects. This warranty provided by Conex Universal Ltd does not affect your statutory rights.

For more information visit [www.conexbanninger.com](http://www.conexbanninger.com).

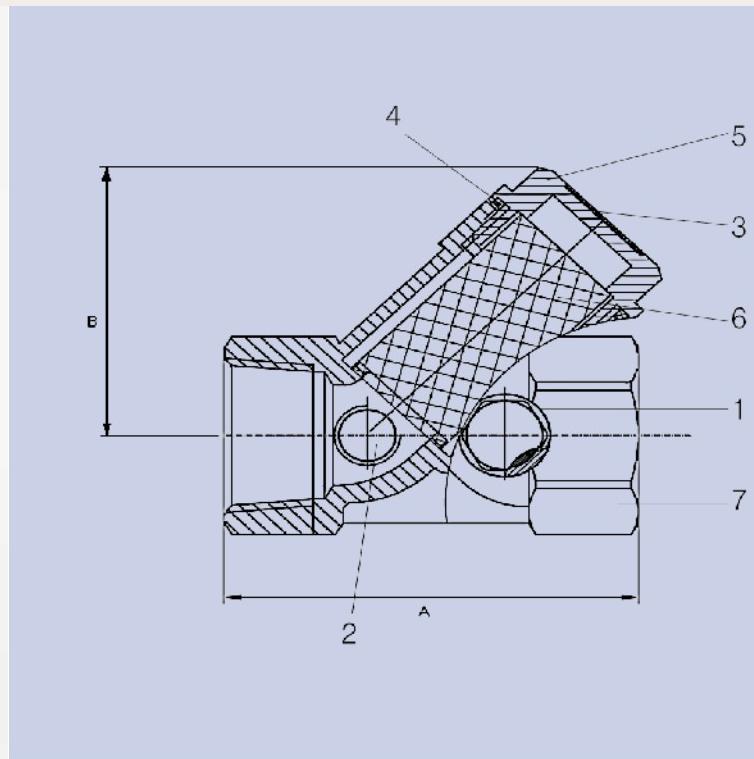
### General information

Performance data, including pressure - temperature ratings have been developed from published standards, supplier material specifications, design calculations and in-house testing. They cover typical applications for the Conex Bänninger Valve product range and are provided as a general guideline.

For specific applications, users are advised to contact Conex Universal Ltd for technical advice. Failure to follow advised installation instructions may result in damage and personal injury for which Conex Universal Ltd cannot be held liable.

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## Valve range

1802 Y-Pattern Strainer - PN16 - (Brass)

### Material specification

**1802 - 1/2" - 4"**

| No | Component      | Material        | Specification      |
|----|----------------|-----------------|--------------------|
| 1  | O-ring         | EPDM            | EN 2430:1995       |
| 2  | Blanking Plug* | DZR Brass       | EN 12164 CW602N    |
| 3  | Rating Disc    | Aluminium       | EN 1706 LM6        |
| 4  | Washer         | PTFE            | PTFE               |
| 5  | Cap            | Brass           | EN 12165 CW617N-DW |
| 6  | Filter Screen  | Stainless Steel | ISO.15510          |
| 7  | Body           | Brass           | EN 12165 CW617N-DW |

\*Drilled and tapped bosses to special order.

**Features and benefits:**

- Streamlined design in order to minimise pressure drop.
- Stainless steel mesh, density 350 holes per square inch.
- Robust and compact design.
- Available with drilled and tapped bosses to special order.
- End connections taper threads to EN 10226-2 (ISO 7-1) and parallel threads to ISO 228.
- WRAS approved for drinking water applications.
- Suitable for low temperature hot water systems.

**Y-Pattern Strainer - 1802**

| Order Code<br>BS EN 10226-2<br>(ISO 7-1) thread | Order Code<br>ISO 228 thread | Size   | DN  | A   | B  | Kv<br>Value | Weight<br>(kg) |
|---|------------------------------|--------|-----|-----|----|-------------|----------------|
| 180210RR0160404                                 | 180210FF0160404              | 1/2"   | 15  | 65  | 42 | 2.35        | 0.152          |
| 180210RR0160606                                 | 180210FF0160606              | 3/4"   | 20  | 75  | 50 | 3.3         | 0.246          |
| 180210RR0160808                                 | 180210FF0160808              | 1"     | 25  | 90  | 56 | 6.5         | 0.358          |
| 180210RR0161010                                 | 180210FF0161010              | 1 1/4" | 32  | 110 | 65 | 11          | 0.584          |
| 180210RR0161212                                 | 180210FF0161212              | 1 1/2" | 40  | 120 | 75 | 13.5        | 0.868          |
| 180210RR0161616                                 | 180210FF0161616              | 2"     | 50  | 135 | 90 | 15.6        | 1.270          |
| 180210RR0162020*                                | 180210FF0162020*             | 2 1/2" | 65  | -   | -  | -           | -              |
| 180210RR0162424*                                | 180210FF0162424*             | 3"     | 80  | -   | -  | -           | -              |
| 180210RR0163232*                                | 180210FF0163232*             | 4"     | 100 | -   | -  | -           | -              |

\*Valves available to special order.

**Valve suitability**

| Product | Steam | Water | Drinking Water | Oil | Air (Oil Free) | Gas (Inert) | Gas (Combustible) | Gas (Corrosive) | Gas (Oxygen) |
|---------|-------|-------|----------------|-----|----------------|-------------|-------------------|-----------------|--------------|
| 1802    | x     | ✓     | ✓              | ✓   | x              | x           | x                 | x               | x            |

The fluid to be transported is limited to Group 2 liquids i.e. non-hazardous and on no account should these valves be used for any Group 2 Gases, Group 1 Liquids or Group 1 Gases.

**Max. working parameters**

| 1802  | Temperature °C | Pressure bar | Pressure psi |
|-------|----------------|--------------|--------------|
| Water | -10 to +100    | 16           | 230          |

**Specification clauses:**

Brass body.

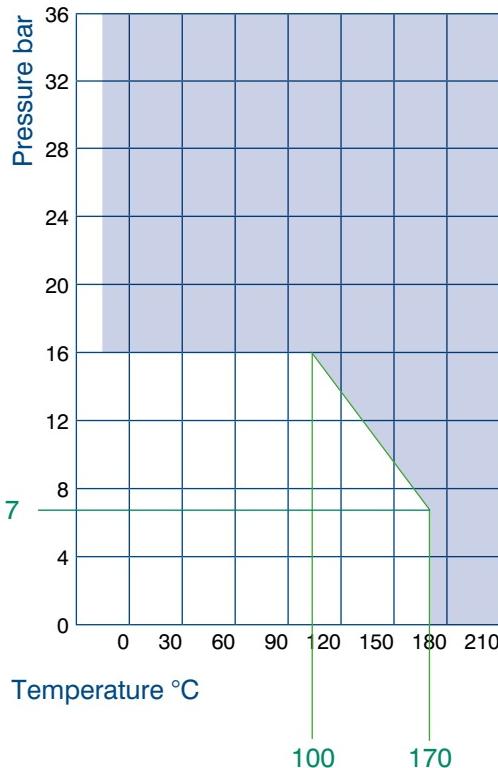
Brass screw in cap.

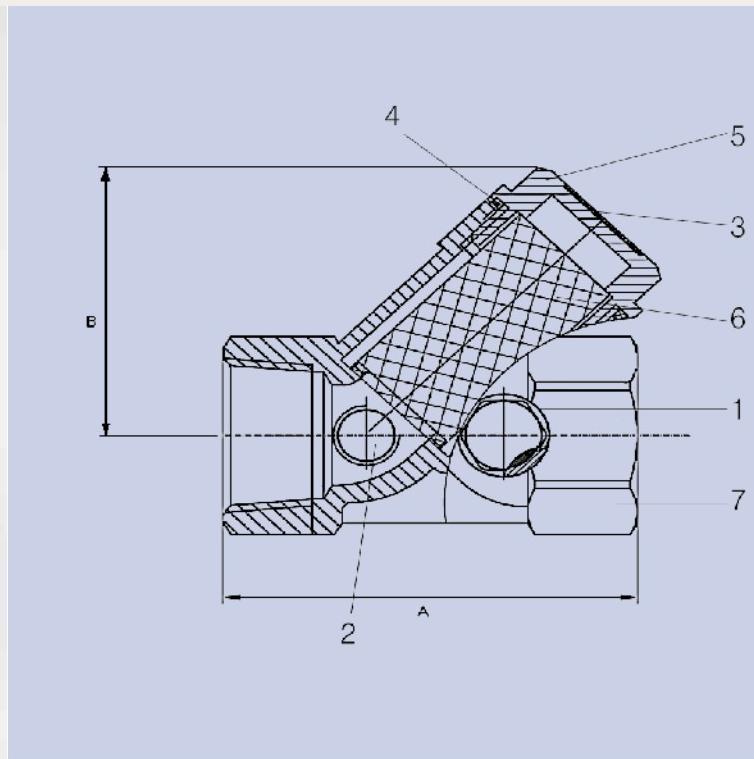
Stainless Steel SS304 screen, density 350 holes per square inch.

Test pressure 24 bar hydraulic.

End connections, female taper threads to EN 10226-2 (ISO 7-1) and parallel threads to ISO 228.

WRAS approved for drinking water applications.





## Valve range

1804 Y-Pattern Strainer - PN16 - (Bronze)

### Material specification

1804 - 1/2" - 4"

| No | Component       | Material        | Specification   |
|----|-----------------|-----------------|-----------------|
| 1  | O-ring          | EPDM            | EN 2430:1995    |
| 2  | Blanking Plugs* | DZR Brass       | EN 12164 CW602N |
| 3  | Rating Disc     | Aluminium       | EN 1706 LM6     |
| 4  | Washer          | PTFE            | PTFE            |
| 5  | Cap             | Bronze          | EN 1982 CC491K  |
| 6  | Screen          | Stainless Steel | ISO.15510       |
| 7  | Body            | Bronze          | EN 1982 CC491K  |

\*Drilled and tapped bosses to special order.

**Features and benefits:**

- Streamlined design in order to minimise pressure drop.
- Available with drilled and tapped bosses to special order
- Suitable for low temperature hot water and chilled systems.
- Bronze body with streamlined internal contour to minimise pressure drop across valve.
- End connections, female taper threads to EN 10226-2 (ISO 7-1) and parallel threads to ISO 228.
- Stainless steel mesh, density 350 holes per square inch.
- WRAS approved for drinking water applications.

**Y-Pattern Strainer - 1804**

| Order Code<br>BS EN 10226-2<br>(ISO 7-1) thread | Order Code<br>ISO 228 thread | Size   | DN  | A   | B  | Kv<br>Value | Weight<br>(kg) |
|---|------------------------------|--------|-----|-----|----|-------------|----------------|
| 180420RR0160404                                 | 180420FF0160404              | 1/2"   | 15  | 65  | 42 | 2.35        | 0.21           |
| 180420RR0160606                                 | 180420FF0160606              | 3/4"   | 20  | 75  | 50 | 3.3         | 0.32           |
| 180420RR0160808                                 | 180420FF0160808              | 1"     | 25  | 90  | 56 | 6.5         | 0.48           |
| 180420RR0161010                                 | 180420FF0161010              | 1 1/4" | 32  | 110 | 65 | 11          | 0.76           |
| 180420RR0161212                                 | 180420FF0161212              | 1 1/2" | 40  | 120 | 75 | 13.5        | 1.00           |
| 180420RR0161616                                 | 180420FF0161616              | 2"     | 50  | 135 | 90 | 15.6        | 1.61           |
| 180420RR0162020*                                | 180420FF0162020*             | 2 1/2" | 65  | -   | -  | -           | -              |
| 180420RR0162424*                                | 180420FF0162424*             | 3"     | 80  | -   | -  | -           | -              |
| 180420RR0163232*                                | 180420FF0163232*             | 4"     | 100 | -   | -  | -           | -              |

\*Valves available to special order

**Valve suitability**

| Product | Steam | Water | Drinking Water | Oil | Air (Oil Free) | Gas (Inert) | Gas (Combustible) | Gas (Corrosive) | Gas (Oxygen) |
|---------|-------|-------|----------------|-----|----------------|-------------|-------------------|-----------------|--------------|
| 1804    | x     | ✓     | ✓              | ✓   | x              | x           | x                 | x               | x            |

The fluid to be transported is limited to Group 2 liquids i.e. non-hazardous and on no account should these valves be used for any Group 2 Gases, Group 1 Liquids or Group 1 Gases.

**Max. working parameters**

| 1804  | Temperature °C | Pressure bar | Pressure psi |
|-------|----------------|--------------|--------------|
| Water | -10 to +100    | 16           | 230          |

**Specification clauses:**

Bronze body.

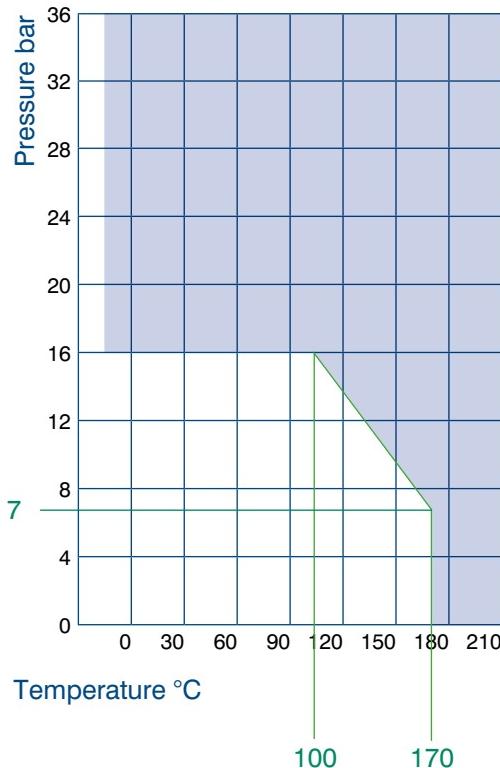
Bronze screw in cap.

Stainless steel SS304 screen, density 350 holes per square inch.

End connections, female taper threads to EN 10226-2 (ISO 7-1) and parallel threads to ISO 228.

WRAS approved for drinking water applications.

Suitable for low temperature hot water and chilled systems.



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**>B< Press XL**

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